

Hangman Restoration Project

Annual Report 2002 - 2003



DOE/BP-00009210-2

October 2003

Hangman Restoration Project Annual Report

August 1, 2002 – September 30, 2003

Prepared for

**Bonneville Power Administration
Lee Watts, COTR**

by

Coeur d'Alene Tribe



**Project# 2001-033-00
Contract #9210**



Table of Contents

Table of Contents	i
General Administrative Information	ii
Introduction.....	1
Work Accomplished.....	1
Planning and Design	1
Construction and Implementation	7
Operation and Maintenance.....	9
Monitoring and Evaluation.....	13
Summary.....	16

General Administrative Information

Project Title: Hangman Restoration Project

Organization: Coeur d'Alene Tribe

Project Number: 2001-033-00

Contract Number: 9210

Contract Renewal Date: September 20, 2002

Contract Period: 09/20/02 – 09/30/03

Administrative Contact: Cameron Heusser, Wildlife Manager
Coeur d'Alene Tribe Wildlife Resources Program
850 A Street, P.O. Box 408
Plummer, Idaho 83851
Phone: (208) 686-5521
Fax: (208) 686-3021
E-mail: cheusser@cdatribe-nsn.gov

Technical Contact: Gerald I. Green
Wildlife Mitigation Biologist
Coeur d'Alene Tribe Wildlife Resources Program
850 A Street, P.O. Box 408
Plummer, ID 83851
Phone 208-686-0312
Fax: (208) 686-3021
e-mail: gggreen@cdatribe-nsn.gov

Introduction

This annual report details the activities of the Coeur d'Alene Tribe Wildlife Program's **Hangman Restoration Project**, project #2001-033-00, for the period of August 1, 2002 – September 30, 2003. Activities will be addressed according to the objectives and tasks of the FY2002 Statement of Work.

Work Accomplished

Planning and Design

Objective 1. Refine maps of the original vegetation types and associated watercourses as new literature and data are gathered.

Schedule: Quarterly from the date of award

Task 1.a. Update literature on historical vegetation communities.

Deliverable: Discovered 2 new literature resources

Jennings, M. D., B. C. Miller, D. F. Bezdicek, and D. Granatstein. 1990. Sustainability of dryland cropping in the Palouse: An historical view. *Journal of Soil and Water Conservation*. V45: 75-80.

Belsky, A. J. and D. M. Blumenthal. 1997. Effects of livestock grazing on stand dynamics and soils in upland forests of the interior West. *Conservation Biology*. V11#2: 315-327.

Task 1.b. Continue to conduct interviews of long time residents to document their recollections of stream courses and the plant communities along them.

Deliverable: July 31, 2003, facilitated a three hour discussion between Tribal Elder Felix Aripa and Archaeologist Dr. Lee Sappington. The interview was a part of the Cultural Resource Inventory that was conducted on Allotment 331, Allotment 1021, Allotment 333a, Allotment 333b and the Hanson Property. These properties have previously been identified as properties to acquire as part of the Hangman Restoration Project. The Cultural Resource Inventory was accomplished as part of the pre-acquisition tasks for those properties. Mr. Aripa's knowledge of the Upper Hangman Creek was essential in interpreting the field data gathered as part of the Inventory.

Task 1.c. Continue to collect historic landscape photographs from long time residents of the Coeur d'Alene Indian Reservation and surrounding areas.

Deliverable: Photos from the Spokane Museum of Art and Culture are not yet restored as we had expected from discussions with the Museum earlier in the year. Given the extensive search for historic photos as evidenced by the following list of contacts we have determined that further use of Project time should not be expended on this task. However, the search for historic photos of the Project Area will continue as a minor part of the public outreach aspects of the Project.

Contact	Date	Results
Bill Hutton	09/11/02	no photos
Ken Krell	09/23/02	no photos
Ralph Chase	09/19/02	no photos
Billy Howard	09/19/02	no photos
Carl Thompson	09/19/02	no photos
Erleen Dupay	10/07/02	no photos
John Kenison	10/07/02	no photos
Jean Weaver	10/24/02	marginally useful photos
Tribal School	11/15/02	no photos
Fairfield Press	11/18/02	no photos
Perry Kitt	12/02/02	useful photo of the Kitt Allotments
City of Tekoa	12/02/02	no new photos
Dixie Seyler	12/03/02	Meeting set for 12/06/02
Tekoa Library	12/03/02	no new photos
Harry Brandt	12/03/02	no new photos
Dixie Seyler/Tribal archives	12/06/02	no new photos
Billy Howard	12/06/02	no new photos
Ye Gallion Press	12/09/02	no new photos
U of I State Archives	12/12/02	no new photos
Old Mission State Park	12/12/02	no new photos
Tekoa Library & Museum	12/16/02	no new photos
Felix Aripa	12/19/02	no new photos
Perry Kitt	12/30/02	two useful photos
Marianne Hurley	01/30/03	no photos
Lee Carpenter	02/03/03	no photos
Hughes House Museum	02/03/03	no photos
Felix Aripa	02/05/03	no photos
Waverly Bar and Grill	02/06/03	no photos
Fairfield Museum	02/06/03	no photos
Richard Mullen	02/07/03	no photos
Hank Aripa	02/13/03	no photos
Spokane Museum of Arts and Culture	02/14/03	several potentially useful photos, however photos are being restored and will not be available till mid summer.
Lakeside High School	02/18/03	no new photos
Fairfield Historical Society	02/25/03	no new photos
Shannon Stuhlman	03/07/03	no photos
Erin Gerhauser	03/07/03	no new photos
Betty Schmitz	03/11/03	no photos
Spokane Museum of Arts and Culture	03/25/03	some photos of the lower watershed delivered, upper watershed photos still undergoing restoration

In addition, the 1947 aerial photo coverage of the Hangman Watershed east of the Washington/Idaho boarder (coverage of the entire Project Area) has been digitized and registered to our GIS system. Those photos can now be used to compare vegetation coverages and stream meander patterns between 1947 and the present as part of the Monitoring and Evaluation of this Project. In addition to the 1947 aerial photo registration, which was funded by this Project, what 1933 photos that are available have been digitized and are currently being registered to our GIS system. The 1933 photos, while not a complete coverage, will provide an excellent cross-reference for data comparisons. The digitized 1947 aerial photos are available upon request and the 1933 aerial photos will be available soon.

Task 1.d. Update maps of original (pre-channelization) streambed and floodplain topography as new literature and data become available.

Deliverable: The registry of the 1947 aerial photographs was completed early in September of this year (2003). The comparisons of pre-channelization stream geometry with current stream geometry will occur as part of accomplishing the Monitoring and Evaluation Tasks and Objectives during the coming year.

Task 1.e. Update GIS map of historical native vegetation communities and distributions as data is collected.

Deliverable: Mapped probable distribution of extensive camas meadows that lie within the Hangman Creek, Lolo Creek, Mottileme Creek, and Little Hangman Creeks. Used hydric soils and interviews with Fr. Tomas Connolly as a basis for the coverages. Coverages must be scrutinized by Coeur d'Alene Tribal Elders and then comparisons will be made with Names/Places Project data.

With the aid of a Scientific Advisor (Interagency Agreement with the USGS established on September 9, 2003,) a scheme to sample remnant populations of native vegetation has been derived. Data to be gathered will be used to develop a multivariate model that will predict the potential vegetation for the entire Hangman Watershed. The model will use potential vegetation as a dependant variable and site specific parameters such as elevation, aspect, solar radiance, precipitation, landform and orientation to prevailing winds as independent variables.

GIS mxd projects were created for each of the remnant vegetation communities that have been identified. Digital orthoimagery was used to identify native remnants that boarder current parks and protected areas. Landowners are being contacted to gain access to vegetation communities on private lands. The data gathered from the remnant stands of native vegetation will be used for the basis of the modeling. Remnant sampling sites include Liberty Butte, Mary McCroskey State Park, Tomer Butte, and South Side Paradise Ridge, which are all Idaho Conservation Data Center sites. Within the State of Washington, Kamiak Butte, a Whitman County Park, and Steptoe Butte, a Washington State Park are also included as remnant native vegetation sampling sites. These sites represent the best remnant vegetation sites that are close to the Hangman Watershed.

Task 1.f. Solicit peer review of GIS coverage of Project Area depicting the historical extent of Palouse Prairie and open ponderosa pine woodland.

Deliverable: Development of historical vegetation GIS themes has become more of a collaborative effort between the Tribe and the Spokane County Conservation District. The Spokane County Conservation District developed a GIS theme of vegetation patterns based on the original survey notes of the Washington portion of the Hangman Watershed. This Project has developed GIS themes of soil types that can support Palouse Steppe, ponderosa pine, ponderosa pine and Douglas fir, ponderosa pine and a mix of conifers, and conifers other than ponderosa. These themes will serve as a guide to limit the area of application for a model that will predict the occurrence of Palouse grassland, shrub, and forest potential vegetation types. The model will be derived from randomly sampling remnant native vegetation near the Hangman Watershed for specified landscape variables and GIS derived parameters.

Objective 2. Update the strategy to protect and restore wetland/riparian habitats as new data and insights are gained.

Schedule: Quarterly from the date of award.

Task 2.a. Update GIS database of lands devoted to habitat protection and enhancement as areas are secured or enrolled in conservation programs.

Deliverable: The GIS coverage depicting the 15,458 acres of the Project Area currently enrolled in the Conservation Reserve Program was incorporated into Figure 3 of the Habitat Prioritization Plan. Also incorporated into Figure 3 was that portion of Mary McCrosskey State Park that lies within the Project Area.

Task 2.b. Update maps and plans identifying priority restoration and protection areas as data becomes available.

Deliverable: The Second Iteration of the Habitat Prioritization Plan is submitted along with this Annual report as fulfillment of this task. The Second Iteration incorporated data from the area upstream and east of the Reservation. The inclusion of this area is important in that sampling by the Coeur d'Alene Tribe's Fisheries Program and the Idaho State Department of Environmental Quality has identified several streams that harbor resident salmonid populations. The addition of this area fills a large gap in the data used to produce the original Prioritization Plan.

Task 2.c. Identify and secure alternative funding or cost share opportunities for supplementing restoration activities.

Deliverable: Partners identified include;

1. The Coeur d'Alene Tribe's Fisheries Program's Implement Fisheries Enhancement on the Coeur d'Alene Reservation: Hangman Creek, BPA project # 2001-032-00.
 - Ensured stream cross-section data collection efforts in Rock Creek and Upper Hangman Creek encompassed parameter measurements that would be useful to this Project's efforts.
 - On November 06, 2002, Project staff accompanied Fisheries Program personnel on an examination of a stream that supported a remnant trout population in 2002. The purpose of the field visit was to assess the effects of recent logging activities and identify landowners. The landowner was identified as an organization with a long

history of association with the Coeur d'Alene Tribe. Logging effects were determined to be detrimental and negotiations with the landowner have been initiated.

- This Project is currently coordinating efforts to accomplish a Instream Flow Study that will model available fish habitat for various stream flows and assist in determining instream flow benefits of riparian and floodplain restoration.
- May 1 and May 27, 2003 assisted in choosing the location of water sampling and fish trap locations to ensure data gathered will optimize results and provide useful data for this Project and the Instream Flow Study.
- Throughout the summer months efforts were coordinated to direct the Instream Flow/Watershed Hydrology study contractor to ensure data is pertinent to both the Hangman Fisheries Project as well as this Project.

2. Conservation Reserve Program.

- Efforts have been directed toward developing a programmatic approach to encouraging the enrollment of Tribal and Allotted lands into the Continuous Conservation Reserve Program (CCRP). The owner of Allotment 434 was willing to enroll riparian segments of that Allotment in CCRP. The process of enrolling Allotment 434 has highlighted the obstacle of defining legal responsibility for compliance on trust lands. Several programmatic approaches have been identified to specify who will take legal responsibility to compliance. The first option is for the landowner to take on compliance and maintenance obligations, the second option is for the farmer/operator on trust lands to take on compliance and maintenance obligations and a third option may be for the Coeur d'Alene Tribe Wildlife Program to take on the obligations. If the third option is employed then the Program will become part of the lease agreement and take part of the lease payment to cover compliance obligations.

The possibility of the Coeur d'Alene Tribe becoming a certified Technical Service Provider was investigated and appears to be a viable option. The Technical Service Provider completes all investigations and assessments and writes the management plan for agricultural lands enrolled in CCRP. Enrolling lands in CCRP appears to be a very viable option for engaging partnerships in restoring the fish bearing potential of Hangman Creek and will be further investigated and pursued in the coming Fiscal Year.

3. Spokane County Conservation District

Participated in meetings on:

09/19/02	03/05/03	06/03/03
10/09/02	03/11/03	09/16/03
01/14/03	05/20/03	09/23/03

The Spokane County Conservation District (SCCD) is the lead agency in Washington's Water Resource Inventory Area (WRIA) 56, that portion of the Hangman Watershed that is encompassed by Washington. Cooperation between this Project and both WRIA 56 and the SCCD is imperative in ensuring the gains made by the Coeur d'Alene Tribe in restoring the stream flows in Hangman Creek are protected throughout the Watershed. The Tribe is working with WRIA 56 to minimize new water right allocation for surface waters of the Hangman Watershed

during the low flow periods of the year. Prohibiting new surface water right allocation during the low flow period of the year will protect stream flows and thus fish habitat during the critical dry summer months.

This Project is also cooperating with the SCCD to ensure data gathered and sampling methods are consistent throughout the Watershed. This Project is working on a Potential Vegetation mapping and will use the coverage of early vegetation patterns produced by the SCCD developed from the initial Public Land Survey records. The Instream Flow/Watershed Hydrology studies that this Project is contracting are consistent with SCCD efforts. The Stream Proper Functioning Condition assessments conducted by this Project and the Coeur d'Alene Fisheries Project will also be consistent with SCCD efforts. The purpose of this coordination is to derive a data base that is consistent throughout the Watershed and can be used to set management directions across governing boundaries.

4. Coeur d'Alene Tribal Farm.

June 17 and 18, 2003 installed weather station that will be used to provide data for the Instream Flow study near the main shop on the Tribal Farm. The weather station was installed as part of this Project's Instream Flow Study. The Tribal Farm provides security for the weather station and both the Tribal Farm and this Project gain essential weather data to complete operations. .

5. Idaho Partners in Flight

- Idaho Partners in Flight Pine Task Force directs research and develops managerial publications about the open ponderosa pine/Douglas fir woodland. These open coniferous woodland habitats were prevalent in the pre-agrarian Hangman Watershed so this Project reaffirmed the Tribe's position as a member of the Pine Task Force on May 30, 2003.
- Used Partners in Flight recommendations to establish land bird monitoring protocols to include in this Project's Monitoring and Evaluation Plan. A draft of the wildlife portion of the Monitoring and Evaluation Plan was completed in July of 2002 and was submitted with this Projects Third Quarterly Report during this contract year.

6. Local Timber Companies

May 2, 2003 met with representative of Bennett, Potlatch and Coeur d'Alene Tribal Forestry. The purpose of the meeting was to discuss ways of coordinating management of roads within a portion of the Hangman Restoration Project's Project Area. Each of the forest resource management entities is concerned that the level of access to forest lands degrades the forest resource and this Project sees the high road densities in the Project Area as a major detriment to both fish and wildlife habitats. A Pilot Road Management Area was identified and roads selected that could be upgraded and maintained while other roads are closed to traffic and allowed to recover. This project has served as the central data storage and contact point for the Pilot Roads Management Project, and has produced maps illustrating the current road densities and conditions that would exist if only the selected roads remained open.

7. Environmental Protection Agency (319 grant work)

The Coeur d'Alene Tribe's Water Resource and Fisheries Programs implemented a bank stabilization project funded by EPA on the Kitt Allotments. The Kitt Allotments are targeted for acquisition in FY2002 by this project. The project was

closely monitored, as this type of work funded by this agency, will be a valuable partnership arrangement in the future.

8. Colville Confederated Tribes

A habitat suitability model for sharp-tailed grouse that will be produced by the Colville Confederated Tribes' Sharp-tailed Grouse Restoration Project (BPA project #21034) will be very helpful for this project in determining locations and times to begin reintroduction of sharp-tails to the project area. Personnel from this project attended a meeting on October 16, 2002 to assist in planning future directions of the Sharp-tailed Grouse Restoration Project.

9. Benewah County Roads Department

Have maintained contact with Benewah County road crews that are responsible for culvert placement in stream crossings and general road maintenance. Restoration of streams and riparian zones will lead to an abundance of beaver in the Project Area. Attempts are underway to find ways to discourage beaver from damming culverts under county roads. Also, improperly sized and installed culverts can easily become serious fish barriers so expertise on sizing and installing fish and wildlife friendly culverts has been offered to County road crews.

Objective 3. Develop a project site management plan(s) to guide the restoration, enhancement, operation, and maintenance on each FY2002 secured project site by FY2004.

Schedule: Quarterly from the date of award.

Task 3.a. Coordinate and cooperate with the Spokane County Conservation District to assess Watershed Wide hydrologic function.

Deliverable: Participated in meetings on:

09/19/02	03/05/03	06/03/03
10/09/02	03/11/03	09/16/03
01/14/03	05/20/03	09/23/03

The Spokane County Conservation District (SCCD) is the lead agency in Washington's Water Resource Inventory Area (WRIA) 56, that portion of the Hangman Watershed that is encompassed by Washington. Cooperation between this Project and both WRIA 56 and the SCCD is imperative in ensuring the gains made by the Coeur d'Alene Tribe in restoring the stream flows in Hangman Creek are protected throughout the Watershed. The Tribe is working with WRIA 56 to minimize new water right allocation for surface waters of the Hangman Watershed during the low flow periods of the year. Prohibiting new surface water right allocation during the low flow period of the year will protect stream flows and thus fish habitat during the critical dry summer months.

This Project is also cooperating with the SCCD to ensure data gathered and sampling methods are consistent throughout the Watershed. This Project is mapping potential vegetation patterns in the Hangman Watershed and will use the coverage of early vegetation patterns produced by the SCCD from the initial Public Land Survey. The Instream Flow/Watershed Hydrology studies undertaken by this Project are consistent

with SCCD efforts. And the Stream Proper Functioning Condition assessments conducted by this Project and the Coeur d'Alene Fisheries Project will be consistent with SCCD efforts. The purpose of this coordination is to derive a database that is consistent throughout the Watershed and can be used to set management directions across governing boundaries.

Task 3.b. Develop a plan to stabilize soils for individual project site(s) to minimize loss of plantings and desired plant communities to flood waters and excessive run-off.

Deliverable: Project site management plan(s) will be developed once properties are acquired. Also, as a partial accomplishment of this Task, a comprehensive Instream Flow/Watershed Hydrology Study was initiated to define the role that specific properties can play in ameliorating erosion that results from flooding within the Watershed.

Task 3.c. Update the list of native or desirable plants for the target restoration sites, including optimal planting techniques, range of growing conditions and possible stock sources as new information becomes available.

Deliverable: Databases will be developed in conjunction with project area management plans.

Task 3.d. Identify appropriate wetland types for non-stream wetlands within project site(s) that require restoration and/or alteration to provide habitat for native fish, wildlife, and plant species.

Deliverable: Project site management plan(s) will be developed once properties are acquired. Also, as a partial accomplishment of this Task, a comprehensive Instream Flow/Watershed Hydrology Study was initiated to define the wetland creation, restoration and management activities that will contribute to adequate base flows in Hangman Watershed streams to support a viable salmonid fishery.

Task 3.e. Identify desired non-wetland habitat types within the project site(s) and develop a strategy to achieve habitat maturation with maximum efficiency.

Deliverable: Project site management plan(s) will be developed once properties are acquired.

Objective 4. Establish administrative framework for securing rights to and managing project lands.

Schedule: By 4th Quarter from the date of award.

Task 4.a. Negotiate a Memorandum of Agreement with Bonneville Power Administration to guide the acquisition efforts of this project.

Deliverable: A draft Memorandum of Agreement has been developed by this Project. However, crediting for this Project remains to be clarified and until this Project is recognized as an anadromous fish mitigation project, there is no basis on which to complete a Memorandum of Agreement.

Construction and Implementation

Objective 1. Secure management rights to parcels identified in the Habitat Prioritization Plan

Schedule: Quarterly from the date of award

Task 1.a. Complete all pre-acquisition activities necessary for project implementation including but not limited to; appraisals, NEPA checklist, Cultural Resource Surveys, and Hazardous Materials Surveys.

Deliverable: Appraisals for three target properties were completed and forwarded copies to Bonneville Power Administration officials on December 20, 2002. The appraisal for the single fee title property did not meet with any complications. However, the appraisals on the two trust properties were routed to the Bureau of Indian Affairs (BIA) for approval. The BIA quickly approved the appraisal for Allotment 331, the Felsman Allotment. The appraisal for Allotments 1021, 333a and 333b met with complications in the BIA review. The appraisals were completed according to the *Uniform Standards of Professional Appraisal Practice*, which stipulates the Larger Parcel concept that presents the idea that parcels with “Unity of Ownership” and “Unity of Use” should be appraised as one property. This runs counter to the BIA policy that states each allotment must have a separate appraisal and be given a separate value even though ownership may be continuous. Since one of the appraisals we contracted included three Allotments that are owned by one family, one appraisal was delivered. The Tribe and the BIA reviewed the discrepancy in policies and examined the land values presented in the initial appraisal. The Tribe has decided, and the BIA has voiced no objection, to use the initial appraisal of the Kitt allotments to assign the fair market value to these properties. All appraisals for properties currently targeted for acquisition are a part of BPA records of this Project.

A title report for the Hanson Property was ordered and that was delivered to the Tribe on March 5, 2003. The Bonneville Power Administration acknowledged receipt of the report on March 24, 2003. All legal information regarding ownership, easement and lean information on the Trust Properties is held within the Land Services Program of the Coeur d’Alene Tribe. That information will be summarized and sent to the Bonneville Power Administration as part of the pre-acquisition activities prior to BPA’s approval for acquisition.

Hazardous Materials surveys were completed on the Hanson, Felsman and Kitt Properties on May 28, 2003. Reports summarizing the findings on portions of the properties were completed on June 5, 2003. There were no findings that would jeopardize acquisition of those portions of the properties covered in the reports. However, a substantial amount of Solid Waste and Unknown Material was found on Allotment 333B of the Kitt Property. The report on the Kitt Allotments recommended either removal of this material or offering a diminished value for acquisition of 333B. Segments of both the Hanson and Kitt Properties that contained residential and farm buildings were excluded, as those buildings diminish their value to the Hangman Restoration Project.

Cultural Resource Surveys of the Hanson, Felsman and Kitt Properties were completed on September 25, 2003 and are submitted as part of this Annual Report.

Contact was maintained with the owners of the Felsman, Kitt and Hanson Properties throughout the moratorium on acquisitions that BPA has maintained since this last winter. The owners of all three identified properties have expressed a deep sense of frustration in the inability to move forward with the sale of their perspective properties. Credibility has been lost, particularly with the Hanson Property owner, and this may well effect negotiations.

Task 1.b. Obtain fee title and/or conservation easements to priority lands identified in the strategy created by accomplishing Objective 2 of Planning and Development.

Deliverable: The suspension of mitigation property acquisitions by the Bonneville Power Administration has prevented completion of this Task. Pre-acquisition activities for property acquisitions are being completed in anticipation of the reinstatement of mitigation property acquisitions.

Objective 2. Protect project implementation sites and initiate restoration and/or enhancement of desirable habitats.

Schedule: Quarterly from the date of award.

Task 2.a. Contract project area boundary surveys as needed.

Deliverable: The need for project area surveys will be assessed as we progress toward fee title acquisitions.

Task 2.b. Remove fencing and structures that diminish a project site's potential to provide habitat for native fish and wildlife.

Deliverable: Activities will begin once acquisition is completed.

Task 2.c. Implement protection measures detailed in project site management plan(s) that result from the completion of Objective 3 of the Planning and Development Phase.

Deliverable: Activities will begin once acquisition is completed.

Task 2.d. Implement restoration measures detailed in project area management plan(s) that result from the completion of Objective 3 of the Planning and Development Phase.

Deliverable: Activities will begin once acquisition is completed.

Objective 3. Maximize potential for providing dual benefits to both fish and wildlife resources on all implementation efforts.

Schedule: Quarterly from the date of award.

Task 3.a. Conduct geomorphologic inventories of secured properties to determine proper hydrologic function.

Deliverable: A full Instream Flow/Watershed Hydrology study was initiated in order to achieve the intended purpose of this task. The plan for the Instream Flow/Watershed Hydrology study was completed on May 27, 2003, and the first field season of research was completed on

September 16, 2003. These were the initial steps to defining the hydrologic and in stream fish habitat potential of the Hangman Watershed. The Study Plan and reports summarizing the work accomplished and the data collected during this passed field accompany this Annual Report.

Completion of these studies will provide the basis for completing hydrologic assessments of mitigation properties acquired within the Hangman Restoration Project's Priority Area. Assessments of hydrologic function on specific properties will be conducted once those properties have been acquired through the Bonneville Power Administration's mitigation process.

Task 3.b. Coordinate all Construction and Implementation phases of this project with the Coeur d'Alene Tribe's Fisheries Project "Implement Fisheries Enhancement on the Coeur d'Alene Indian Reservation: Hangman Watershed" to maximize benefit to resident fish as well as native wildlife.

Deliverable: Cooperated with the Coeur d'Alene Fisheries Program in discussions with area timber companies to design a road management strategy that meets the needs of owners of timberlands and Tribal Natural Resource Programs. At a May 2, 2003 meeting between Tribal Natural Resource representatives and area timber companies, roads were identified that should remain open within Project Area watersheds that maintain vestiges of native fish populations. These roads were selected to be improved while efforts will be expended to close all other roads that could greatly improve habitats for native fish and wildlife.

Without properties acquired through the Bonneville Power Administrations mitigation process, much of the Construction and Implementation portion of this Project remains to be implemented. However, much has been accomplished to engage partners (see P&D Task 2.c), define instream flow and watershed hydrology functions and capabilities (see C&I Task 3.a), select priority areas in which to work (P&D Task 2.b), and invite public participation and comment on Project Tasks and Objectives (O&M Task 1.a). The Coeur d'Alene Tribe's Fisheries Hangman Project remains the most effective integrated partner to this Project's implementation.

Operation and Maintenance

Objective 1. Improve public awareness of the Fish and Wildlife Programs' activities to foster support for the Coeur d'Alene Tribe's protection and restoration activities.

Schedule: Task 1.a. Quarterly from the date of award. Task 1.b. Three weeks prior to publication schedule of Spring and Fall Equinoxes & Winter and Summer Solstices.

Task 1.a. Participate in watershed work groups to encourage discussion of both public and private land management practices within the Watershed.

Deliverable: Public meetings were held in Tensed on October 16, 2002 and in Worley on October 23, 2002 to involve the public in watershed restoration activities. Presentations were given by the Coeur d'Alene Tribal Fisheries, Wildlife and Water Resource Programs. The presentation offered by personnel from this Project identified the causes of stream instability and degradation within the Project Area and offered the establishment of wildlife habitat, particularly along streams, as a solution to an array of problems that include erosion and land loss.

Presented an overview of the Coeur d'Alene Tribe's Mitigation Activities to the Integrated Resource Management Plan Community Advisory Committee on the evening of January 30, 2003.

On the evening of February 20, 2003, a public meeting was held at the Cross Keys Restaurant in Tensed, Idaho. Participants included landowners, residents of the area, representatives of the timber companies of the area, and representatives of the Coeur d'Alene Tribe's Fisheries, Wildlife and Water Resource Programs. The group represents the Hangman Watershed Workgroup and topics of discussion included the findings of the Hangman Fisheries Project and the acquisition plans of the Hangman Restoration Project. No opposition or concerns were voiced over the acquisition of targeted properties.

Task 1.b. Contribute articles to the Coeur d'Alene Tribe's Fisheries Program's quarterly newsletter, which is published as part of BPA Project #1990-044-00.

Deliverable: Articles were contributed to the quarterly newspaper on, September 16 and December 5, 2002, and June 3 and August 25, 2003.

Objective 2. Coordinate all project planning, implementation, monitoring and evaluation efforts and associated results with the other regional fish and wildlife managers, BPA, and the NWPPC.

Schedule: Quarterly from the date of award.

Task 2.a. Consult and coordinate throughout the process with the NPCC, CBFWA, BPA, local governments, and the public.

Deliverable:

- The completion of this annual report and preceding quarterly reports is partial fulfillment of this Task. All appropriate public and private entities will continue to be notified as project implementation continues.
- Was in contact with the Contracting Officer Technical Representative on the following dates.

12/03/02	02/05/03	05/28/03	07/10/03	08/22/03
01/06/03	02/14/03	06/17/03	17/16/03	08/29/03
01/07/03	03/04/03	06/20/03	07/23/03	09/03/03
01/14/03	03/11/03	07/02/03	08/07/03	
01/27/03	05/20/03	07/03/03	08/11/03	
01/30/03	05/27/03	07/07/03	08/14/03	

- On May 23, 2003, the Contracting Officer Technical Representative requested a projection of expenders for the remainder of the contracting period given that acquisitions are not going forward. Revised budget projections were sent on May 27, 2003.
- On June 17, 2003, the Contracting Officer Technical Representative requested 2 budget projections for the 2003 contracting period, one that included acquisitions and one that did not. Rough budget estimates were sent on June 20, 2003.

- Maintained involvement with the Intermountain Subbasin planning process.
 1. May 5, 2003 met with the Subbasin Planning Contractor and other resource managers within the Intermountain Province to identify target fish and wildlife species as well as select appropriate models to apply in the Subbasin Planning process.
 2. May 23, 2003 reviewed the original Spokane Subbasin Plan, sent updates and comments to the Subbasin Planning Contractor
 3. May 29, 2003 attended a meeting at the Washington Department of Fish and Wildlife Offices to discuss HUC designations that will determine the way in which watershed within the Spokane Subbasin are organized for QHA modeling.
 4. Took on the task of designating 5th and 6th order HUCs for the Hangman Watershed in order to determine how QHA modeling will be applied to Hangman Creek and its tributaries. Sent those HUC designations to Chris Donley of WDFW and Ginger Gillen of GEI on June 10, 2003. Copies were also sent to Genna Ashly-Poulson of the Idaho Department of Water Resources on June 9, 2003.
 5. June 16, 2003 sent Coeur d'Alene Tribe's Hangman Fisheries Project's 2001 Annual Report to Ginger Gillen as an electronic Copy of a pertinent report for the Spokane Subbasin.
 6. Confirmed my involvement with Spokane River Subbasin Planning with Alice Squire, Ginger Gillen, Lyle Gardiner, and Gigi Gable on the following dates:
 - 05/01/03
 - 05/14/03
 - 06/10/03
 - 07/03/03
 7. Attended QHA Modeling meetings in Coeur d'Alene July 7through July 9, 2003.
 8. Attended IMP Oversight Committee meeting on August 14, 2003.
 9. Sent the GEI contractor a summary table and shape files of vegetation types, road distances, stream distances, and hydric soils within the Project Area on August 31, 2003.
 10. Sent comments and edits on the first draft of the Spokane Subbasin Plan on September 24, 2003.
 11. Reviewed QHA modeling output as part of the Aquatic Ad-Hoc Technical Group on September 5, 2003.
 12. Participated in a Subbasin Work Team Meeting on June 19and September 5, 2003.
- Attended monthly meetings of the Spokane County's Hangman Water Resource Inventory Area (WRIA) Planning Unit.

09/19/02	03/05/03	09/16/03
12/10/02	05/20/03	09/23/03
01/14/03	06/03/03	
- Set a June 25, 2003 date for the next public meeting to inform area residents of the Coeur d'Alene Tribal Natural Resource Program efforts to monitor and improve water quality and fish and wildlife habitats within the Project Area.

- Attended a Tribal Integrated Resource Management Plan meeting on April 2, 2003 to ensure language in the new Integrated Resource Management Plan is consistent with Hangman Restoration Project Objectives and Tasks.
- Participated in the local Interagency Work Group (a group formed to coordinate the involvement of the various resource oriented agencies and groups).
 - 10/02/02 - Discussed the progress of the Hangman Restoration Project.
 - 02/18/03 - Discussed ways to encourage and manage enrolment of Trust and Fee lands in CCRP.
- Participated in public meetings to inform area residents of the Coeur d'Alene Tribal Natural Resource Program efforts to monitor and improve water quality and fish and wildlife habitats within the Project Area.
 - 10/16/02 - meeting in Tensed, Idaho
 - 10/23/02 - meeting in Worley, Idaho
 - 02/20/03 - meeting in Tensed, Idaho
 - 06/25/03 - meeting in Tensed, Idaho
- Presented an overview of the Hangman Restoration Project at the Idaho Chapter of the Wildlife Society Annual Meetings in Boise, Idaho on March 6, 2003. The Hangman Restoration Project was discussed in order to present the Coeur d'Alene Tribe's holistic approach to wildlife management. The overall purpose for involvement in the Wildlife Society Meetings was to foster professional relations between the Tribe's Wildlife Program, the Idaho Department of Fish and Game and other wildlife management agencies within the state of Idaho.
- Attended a NPCC meeting on August 26, 2003 to take part in a discussion of moving forward with 2003 wildlife acquisitions proposed by Upper Columbia United Tribes during fiscal year 2004. Stated to the NPCC that the Hangman Restoration Project was never intended as a wildlife mitigation project and further discussion on crediting for this Project needs to occur before acquisitions can proceed.
- Presented the wildlife portion of this Project's Monitoring and Evaluation Plan to the Wildlife Committee of the Columbia Basin Fish and Wildlife Authority on July 29, 2003. The committee stated that the area this Project needs to effect, as defined by the hydrologic studies, must be known before the M&E Plan is fully implemented. There is the potential that the area that this Project needs to restore to attain instream fish habitats might not be large enough to effect some wildlife populations. However, the main result of the discussion with the CBFWA Wildlife Committee was that without HU crediting the Wildlife Committee does not have a role to play in evaluating the Monitoring and Evaluation Plan.

Task 2.b. Maintain contact with regional participants to discuss the establishment of stable funding to assure long-term fish and wildlife benefits of implementation efforts.

Deliverable: Discussions on establishing stable funding to support long-term fish and wildlife benefits occurred at the CBFWA Wildlife Committee meeting on July 29, 2003 and the NPCC meeting on August 26, 2003. However, these discussions did not pass beyond the agreement that further discussions were warranted.

Objective 3: Review and coordinate fish and wildlife mitigation activities with other Tribal departments and the Coeur d'Alene Tribal Council for consistency in management direction and to ensure compliance with all Tribal policies and procedures.

Schedule: Quarterly from the date of award.

Task 3.a. The Program Manager will provide oversight, and facilitate coordination between fish and wildlife mitigation staff, other Natural Resource staff, Natural Resources Committee, and Tribal Council, to ensure administrative approval of all activities.

Deliverable: The Natural Resources Committee and the Tribal Council have been kept apprised of the project's progress through the office of the Program Manager. In addition, the Program Manager has maintained cohesion between Project staff and other Coeur d'Alene Tribe Programs.

Task 3.b. Coordination of all financial documents and mitigation activities with the Tribal Finance office to ensure accurate and efficient monitoring of wildlife mitigation budgets and timely and accurate invoicing of expenses.

Deliverable: This Project's Administrative Assistant coordinated all financial transactions with the Coeur d'Alene Tribe's Finance Office and maintained Project accounting records.

Objective 4: Maximize long-term benefits to fish and wildlife populations on all project sites.

Schedule: Quarterly from the date of award.

Task 4.a. Perform routine operation and maintenance on project sites as specified in project site management plan(s).

Deliverable: Operation and maintenance activities will begin upon completion of project site management plans.

Monitoring and Evaluation

Note: All fish population, fish habitat, and water monitoring actions mentioned under this Scope of Work will be accomplished by either the Coeur d'Alene Tribe Fisheries or Water Resource Programs. The Coeur d'Alene Tribe Wildlife Program will assist in establishing data gathering protocols and identifying priority sites in order to ensure data is relevant to this Project's implementation efforts.

Objective 1. Develop monitoring and evaluation protocols for determining effectiveness of implementation activities.

Schedule: By FY2003, with summaries of progress quarterly from the date of award.

Task 1.a. Assist the Coeur d'Alene Tribe's Water Quality Program in developing a water monitoring strategy to assess the effectiveness of project implementation.

Deliverable: The Standard Operating Procedures and Quality Assurance Project Plan used by the Coeur d'Alene Tribal Water Resource Program are currently under scrutiny and portions will be included in future drafts of this Project's Monitoring and Evaluation Plan.

Task 1.b. Evaluate various methods of monitoring trends in vegetation as a tool in assessing effectiveness of project implementation.

Deliverable: The first draft of this Project's Monitoring and Evaluation Plan was completed on July 10, 2003 and was included as an attachment to this Project's Third Quarterly Report (March 21 – June 20) for the current annual contract.

Task 1.c. Evaluate the effectiveness of the various habitat quality measuring techniques in assessing project implementation.

Deliverable: The first draft of this Project's Monitoring and Evaluation Plan was completed on July 10, 2003 and was included as an attachment to this Project's Third Quarterly Report (March 21 – June 20) for the current annual contract.

Task 1.d. Evaluate the effectiveness of monitoring various wildlife population indices in assessing effectiveness of project implementation.

Deliverable: The first draft of this Project's Monitoring and Evaluation Plan was completed on July 10, 2003 and was included as an attachment to this Project's Third Quarterly Report (March 21 – June 20) for the current annual contract.

Task 1.e. Contract review of Monitoring and Evaluation Plan to ensure effectiveness of monitoring protocols and conformity with latest standards.

Deliverable: Presented the wildlife portion of this Project's Monitoring and Evaluation Plan to the Wildlife Committee of the Columbia Basin Fish and Wildlife Authority on July 29, 2003. The committee commented that this Project needs to effect must be defined before the M&E Plan is fully implemented. There is the potential that the area that this Project needs to restore to attain fish habitats in Project Area streams might not be large enough to effect some wildlife populations. However, the main result of the discussion with the CBFWA Wildlife Committee was that without HU crediting the Wildlife Committee does not have a role to play in evaluating the Monitoring and Evaluation Plan.

Lengthy discussions with the contractor assisting in development of the M&E plan to clarify Project Area conditions, Project Objectives and scope of the Monitoring and Evaluation Plan occurred on the following dates:

04/04/03	06/05/03	06/10/03	06/18/03
04/29/03	06/06/03	06/11/03	06/20/03
05/22/03	06/09/03	06/16/03	07/10/03
06/04/03			

After completion of the wildlife portion of the Monitoring and Evaluation Plan on July 10, 2003 and the subsequent discussion with the CBFWA Wildlife Committee on July 29, 2003, no further action was taken in regards to the M&E Plan pending the outcome of crediting discussions and/or winter/spring of 2004, when aspects of the Plan can be implemented.

Objective 2. Monitor the overall effectiveness of the restoration projects using landscape photography on a 5-year cycle.

Schedule: Quarterly from the date of award.

Task 2.a. Take landscape photos from the same locations, in the same direction and as close as possible to the same time of day and season as selected historic photographs.

Deliverable: Photographs of the southwest to southeast to northeast panorama from the top of Tekoa Mountain were taken during the last week of September 2003. These photos were taken to correspond to photographs taken from the same location and in the same direction as a group of photographs taken in 1910. These photographs are available upon request.

Objective 3. Conduct base line inventories of parameters specified by the completion of Monitoring and Evaluation Objective 1.

Schedule: Quarterly from the date of award.

Task 3.a. Coordinate and cooperate with the Coeur d'Alene Tribe's Water Resource Program to gather water resource data that will reflect conditions on project site(s).

Deliverable: The task cannot be completed until targeted properties are acquired through the Bonneville Power Administration's mitigation program. However, water quality monitoring protocols used by the Coeur d'Alene Tribe's Water Resource Program are being evaluated for their inclusion in this Project's Monitoring and Evaluation Plan.

Task 3.b. Coordinate and cooperate with the Coeur d'Alene Tribe's Fisheries Program to gather data on fish habitat and populations that will reflect conditions within the Project Area

Deliverable: The Coeur d'Alene Tribe's Fisheries and Wildlife Program are coordinating efforts to fund an Instream Flow/Watershed Hydrology Study for the Project Area. Data summaries and reports from the first year of data gathering are included with this Annual Report. This study will be completed over the next two years. The full scope of this study is beyond this Project's capabilities but the expense will be shared between the Coeur d'Alene Tribes two Hangman Projects through their respective mitigation projects and other grant-funding agencies.

In addition to the Instream Flow Study the Fisheries Program's fish population monitoring protocols will be included in a Monitoring and Evaluation Plan that will be inclusive of all mitigation activities in the Project Area.

Task 3.c. Conduct baseline wildlife habitat inventories that reflect conditions within a targeted project site(s).

Deliverable: Some baseline monitoring of specific indicators will be accomplished during the next annual funding cycle. However, acquisition of mitigation properties is a necessary precursor to completion of this task.

Task 3.d. Conduct baseline evaluations of parameters that assess wildlife populations within project site(s).

Deliverable: Some baseline monitoring of specific indicators will be accomplished during the next annual funding cycle. However, acquisition of mitigation properties is a necessary precursor to completion of this task.

Objective 4. Conduct annual noxious weed monitoring of project sites.

Schedule: Quarterly from the date of award.

Task 4.a. Develop maps illustrating the location, acreage and percent cover of noxious weeds within project sites as part of baseline evaluations.

Deliverable: Acquisition of mitigation properties is a necessary precursor to completion of this task.

Objective 5. Maintain records of project site restoration and enhancement plantings for the purpose of future evaluations of habitat restoration and/or enhancement success.

Task 5.a. Maintain journal of planting activities to include source of plantings, size, age, planting method, dates of planting, soil conditions and other pertinent information.

Deliverable: Acquisition of mitigation properties is a necessary precursor to completion of this task.

Task 5.b. Create GIS maps of project sites that summarize planting activities to allow assessment of changes in vegetation composition over time.

Deliverable: Task will be accomplished as sites are acquired and secured.

Summary

Progress has been made in defining the level of work that needs to be accomplished in the Hangman Watershed in order to restore a viable riparian system and hydrology. The end goal is to use wildlife habitat to protect streams and provide water for instream fish habitats. In order to define the most expedient means of attaining that goal an Instream Flow/Watershed Hydrology Study was initiated. The study is intended to be comprehensive in order to determine the potential of increasing base flow with Hangman Watershed Streams and predict available fish habitats for the range of flow level possibilities. The Study Plan and work for the first field

season was contracted and the Plan and end of field season reports are included with this Annual Report.

The initial draft of the wildlife portion of the Monitoring and Evaluation Plan was completed and presented to the Columbia Basin Fish and Wildlife Authority Wildlife Committee. The Committee felt that the Basin Hydrology Study needed to be closer to completion before the bulk of wildlife monitoring should be implemented. The extent of the landscape that must be restored in order to facilitate the needed stream flows may not be large enough to affect the population levels of the Plan's target species. The main result of the Committee review of the Monitoring and Evaluation Plan however, was that since the Hangman Restoration Project is not a HU driven wildlife mitigation project than the Wildlife Committee does not have a role to play since their focus is wildlife HU crediting projects. Further work on the wildlife portion of the Monitoring and Evaluation Plan is suspended until the crediting issues surrounding the Hangman Restoration Project are settled. Certain aspects of the Plan, such as the land bird, amphibian, reptile and beaver monitoring can be implemented in the spring of the coming year because monitoring these species and groups needs to be accomplished regardless of crediting status and baseline data is needed for these.

Data from the Hangman Creek Watershed from portions upstream and east of the Coeur d'Alene Indian Reservation were included in the Second Iteration of the Habitat Prioritization Plan. These data were gathered both by the Coeur d'Alene Tribe and Idaho's Department of Environmental Quality. The addition of this portion of the Watershed in the Prioritization Plan fills a gap that the lack of data left in the first draft of the Plan. The streams in these upper headwaters support remnant salmonid populations and are close enough to be integrated with the streams and trout populations on the Reservation. The addition of this area strengthens the base from which the Hangman Restoration Project can work to secure and expand resident fish populations.

An extensive 2-year search for historic photos of the upper portion of the Hangman Watershed was completed during this annual funding cycle. The disappointing result is that few photographs were acquired. One excellent panoramic view of the Upper Hangman Watershed from Tekoa Mountain was recovered and photos of this view were taken for comparison. The task of finding historic photos has been removed from future Scopes of Work, however search for photos will continue as part of the Project's public outreach. The notable exception to the lack of historic photos is the purchase, digitizing and GIS registry of 1947 aerial photo coverage of the entire Hangman Creek Watershed east of the Washington/Idaho State Boarder. In addition, 1933 aerial photo coverage of most of this same area is being registered to our GIS system. These 1933 photos were available to the Tribe prior to the initiation of this Project; however these photos are being registered partly as a result of requests made from this Project.

The process of developing a map of potential vegetation types for the Hangman Watershed has benefited from establishment of an Interagency Agreement with the U.S. Geologic Survey to hire a Scientific Advisor. The Scientific Advisor has assisted with the design of a scheme to sample remnant native vegetation within and close to the Hangman Watershed and will assist in using the acquired data to develop and test a multivariate model that predicts potential vegetation for any given site within the Hangman Watershed. This information is essential in modeling the

potential stream flows within the watershed and for identifying the appropriate vegetation types to manage for in any restoration project.

A host of partnerships have been actively pursued as part of carrying out daily operations for this Project. This Project has engaged with the Spokane County Conservation District, particularly through involvement in Washington WRIA56 Planning Unit, to protect the gains that can potentially be gained by increasing base flow throughout the Hangman Watershed. Protection of base flow is being achieved primarily by prohibiting new surface water rights in the Washington portion of the Watershed during low flow periods. The potential to engage partners has not been achieved however. The Continuous Conservation Reserve Program that is administered by the Farm Service Agency offers one of the best opportunities to engage an effective partner in restoring the Hangman creek Watershed. The development of a programmatic approach to encouraging enrollment in CCRP was initiated during this annual funding cycle.

In spite of the progress made during this last year, this Project was not able to accomplish the primary tasks of acquiring management rights to properties that offer the greatest potential to protect and restore the streams and fisheries within the Hangman Watershed. Appraisals, hazardous materials surveys, and cultural resource inventories were completed on 3 properties that have been identified as priority parcels to acquire and restore to their biotic potential. The pre-acquisition tasks that remain are minor and these properties can readily be acquired when land acquisitions are reinitiated. This Project has lost credibility with landowners that intended to sell their property and the central purpose of mitigating the Coeur d'Alene Tribe for loss of anadromous fish has not been met because of the inability to complete acquisitions due to Regional policies that have stalled the acquisition process.

This Document should be cited as follows:

Green, Gerald, "Hangman Restoration Project", Project No. 2001-03300, 25 electronic pages, (BPA Report DOE/BP-00009210-2)

Bonneville Power Administration
P.O. Box 3621
Portland, Oregon 97208

This report was funded by the Bonneville Power Administration (BPA), U.S. Department of Energy, as part of BPA's program to protect, mitigate, and enhance fish and wildlife affected by the development and operation of hydroelectric facilities on the Columbia River and its tributaries. The views in this report are the author's and do not necessarily represent the views of BPA.